Reference Device	Variant Device	Key differences
FCC ID: UKCW40MH Model: W40T	FCC ID: UKCW40MH Model: W40MH	This FCC ID will include the models W40MH and W40T. The model W40MH has 3 circuits and the model W40T has five circuits. Control circuit, motor circuit and battery connection circuit are common for all the models. The BLE Broker Module circuit and the priva + door circuit are only for the electronic model W40T. The BLE Broker Module circuit contains an already FCC/ISED certified module (FCC ID: TCZ-10105567G1 / IC: 1175F-10105567G1).

Rule Part	Test item	Data Reference	Comments
DTS			
FCC 15.247 (a)	6 dB Bandwidth	Y	Pointer to 77037RRF.017 for model W40T
FCC 15.247 (b)	Maximum output power and antenna gain	Y	Pointer to 77037RRF.017 for model W40T
FCC 15.247 (c)	Band-edge emissions compliance (Transmitter)	Y	Pointer to 77037RRF.017 for model W40T
FCC 15.247 (d)	Power spectral density	Y	Pointer to 77037RRF.017 for model W40T
FCC 15.247 (e)	Emission limitations radiated (Transmitter)	N	Pointer to 77037RRF.016 for model W40MH
DXX			
FCC 15.225 (a)	Field strength of emissions within the band 13.553 MHz -13.567 MHz	N	Pointer to 73037RRF.018 for model W40MH
FCC 15.225 (b)	Field strength of emissions within the band 13.410 - 13.553 MHz and 13.567 – 13.710 MHz	N	Pointer to 73037RRF.018 for model W40MH
FCC 15.225 (c)	Field strength of emissions within the band 13.110 - 13.410 MHz and 13.710 – 14.010 MHz	N	Pointer to 73037RRF.018 for model W40MH
FCC 15.225 (d)	Field strength of emissions outside of the band 13.110 MHz -14.010 MHz	N	Pointer to 73037RRF.018 for model W40MH
FCC 15.225 (e)	Frequency tolerance of the carrier signal	Y	Pointer to 73037RRF.019 for model W40T
COLOCATION			

FCC 15.31 (h), FCC 15.209 (a), 15.225 (d), 15.247 (d)	Emission limitations radiated (Transmitter)	Y	Pointer to 73037RRF.020 for model W40T

Acceptance Criteria

FCC Part 15.247 (DTS)

For the same radiated test conditions, It has been taken the considered most critical range of harmonic emission of the carrier and compared the value of the first evaluable harmonic, with the difference between the reference and the variant being < 3 dB.

The previous information can be confirmed by the reports number 77037RRF.016 (page 17) and 77037RRF.017 (page 40 and 41).

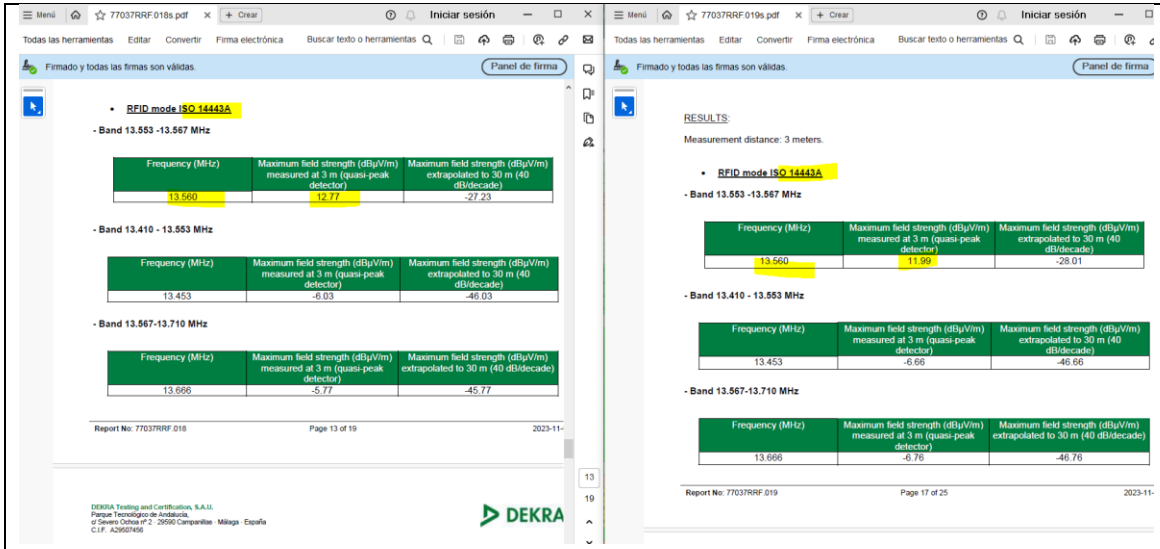
Freq (MHz)	Freq Rng (GHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Corrected RMS Unwanted Lvl (dBµV/m)	Pol	Detector
2402.00000	[3, 17]	4804.2500	51.92	--	V	PK
			--	17.90		AVG
		7205.6875	55.94	--	H	PK
		12011.1875	52.60	--	H	PK
			--	18.58		AVG
		14413.5000	54.60	--	H	PK
2440.00000		4880.3750	49.33	--	V	PK
			--	15.51		AVG
		7319.4375	56.34	--	H	PK
			--	9.81		AVG
		9758.9375	54.99	--	V	PK
		12200.1875	50.96	--	H	PK
			--	16.94		AVG
2480.00000		4959.1250	48.45	--	V	PK
			--	10.44		AVG
		7439.3125	58.23	--	V	PK
			--	24.21		AVG
		12401.0000	50.69	--	V	PK
			--	12.67		AVG

Freq (MHz)	Freq Rng (GHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Corrected RMS Unwanted Lvl (dBµV/m)	Pol	Detector
2402.00000	[3, 17]	4803.3750	53.29	--	V	PK
			--	19.27		AVG
		9606.6875	55.18	--	V	PK
		12011.1875	52.70	--	V	PK
			--	18.68		AVG
2440.00000		4879.0625	52.06	--	V	PK
			--	18.04		AVG
		7319.0000	51.52	--	H	PK
			--	17.50		AVG
		9760.6875	54.35	--	V	PK
		12199.3125	51.66	--	V	PK
			--	17.64		AVG
2480.00000		4960.4375	49.85	--	V	PK
			--	15.83		AVG
		7440.6250	52.08	--	H	PK
			--	18.06		AVG
		12401.4375	50.11	--	V	PK
			--	16.09		AVG

FCC Part 15.225 (DXX)

For the same radiated test conditions, It has been evaluated the value of the carrier, with the difference between the reference and the variant being < 3 dB.

The previous information can be confirmed by the reports number 77037RRF.018 (page 13) and 77037RRF.019 (page 17).



Menú 77037RRF.018s.pdf + Crear Iniciar sesión

Todas las herramientas Editar Convertir Firma electrónica Buscar texto o herramientas

Firmado y todas las firmas son válidas. Panel de firma

- RFID mode ISO 14443A

- Band 13.553 -13.567 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.560	12.77	-27.23

- Band 13.410 - 13.553 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.453	-6.03	-46.03

- Band 13.567-13.710 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.666	-5.77	-45.77

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DEKRA

13
19

Menú 77037RRF.019s.pdf + Crear Iniciar sesión

Todas las herramientas Editar Convertir Firma electrónica Buscar texto o herramientas

Firmado y todas las firmas son válidas. Panel de firma

RESULTS:

Measurement distance: 3 meters.

- RFID mode ISO 14443A

- Band 13.553 -13.567 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.560	11.99	-28.01

- Band 13.410 - 13.553 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.453	-6.66	-46.66

- Band 13.567-13.710 MHz

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.666	-6.76	-46.76

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